

PROCRASTINATION: THE DIRTY SECRET ABOUT SMOG CHECKS

Jeffrey Williams June 27, 2006



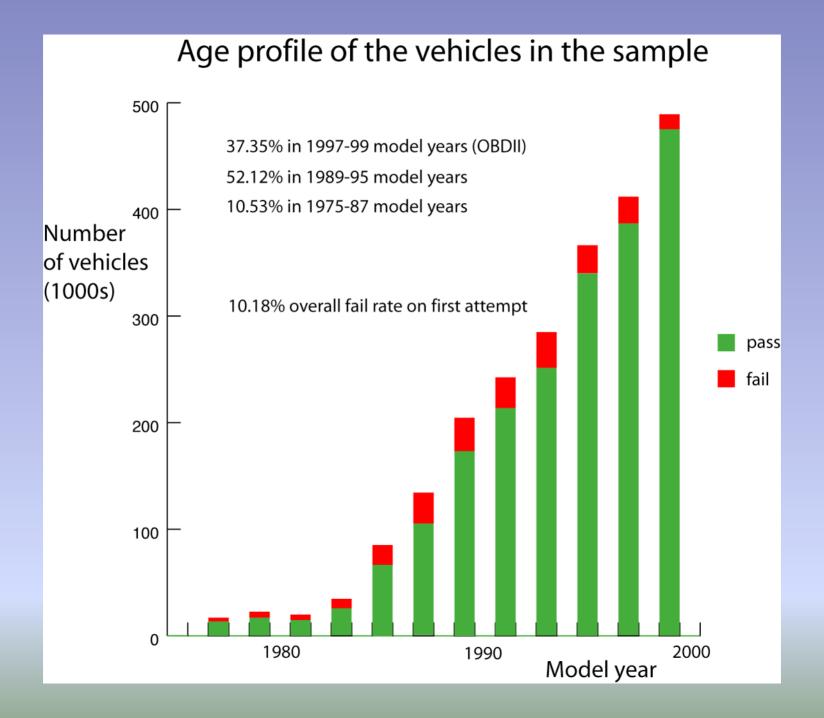
Three basic questions about procrastination:

- How many Californians postpone having their vehicles smog-checked until after their re-registrations are due?
- Are those late smog checks disproportionately "fails"?
- Are fails often corrected late, after the due date for re-registrations?



Sample of re-registrations

- Re-registrations due January-June 2005
- A pass must be observed within 90 days before and 180 days after re-registration due date (ASM test)
- If code C for change-of-ownership, vehicle not considered
- Odd-year model years, 1975-1999
- 2,306,441 vehicles considered here
- 60% due for a Smog Check in 2005, otherwise 2004





Example of a vehicle's test dates

(an early pass)

VIN JT2SV24E2K3359825

CA plate 2MPL166, '89 Toyota Camry Registration due February 8, 2005

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Station Date and time Mileage Type Result

TG206070, 1/18/2001,16:36, 137241, C, P

TG206070, 1/13/2003,16:36, 155442, P, P

TG206070, 1/28/2005,16:36, 174516, P, P
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Pass certificate first attempted 11 days early Pass certificate achieved 11 days early



(an early fail, late pass)

VIN JT2SV24E1K3363803

CA plate 2MXB241, '89 Toyota Camry

Registration due March 8, 2005

```
Station Date and time Mileage Type Result

TB232243, 3/05/2005,10:48, 346037, P, F

RM225536, 3/26/2005,09:56, 346078, Q, A

RM225536, 3/26/2005,10:15, 346078, Q, P

TB232243, 3/26/2005,10:44, 346086, P, P
```

Pass certificate first attempted 3 days early Pass certificate achieved 18 days late



(an early fail, early pass)

VIN JT2SV24E1K3375420

CA plate 2NYL012, '89 Toyota Camry

Registration due June 12, 2004

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Station Date and time Mileage Type Result TJ217900, 4/05/2004,16:38, 238491, P, F
```

Pass certificate first attempted 67 days early Pass certificate achieved 1 day early

TJ217900, 6/11/2004,16:04, 241131, P,



(an early fail, early pass)

VIN JT2SV24E1K3369990

CA plate 2MYN189, '89 Toyota Camry

Registration due April 26, 2005

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Station Date and time Mileage Type Result
TB237822, 5/11/2005,11:41, 199114, P, F
TB237822, 5/13/2005,13:37, 199223, P, P
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Pass certificate first attempted 15 days late Pass certificate achieved 17 days late



(a late fail, late pass)

VIN JT2SV24EXK3382592

CA plate 2NMZ242, '89 Toyota Camry

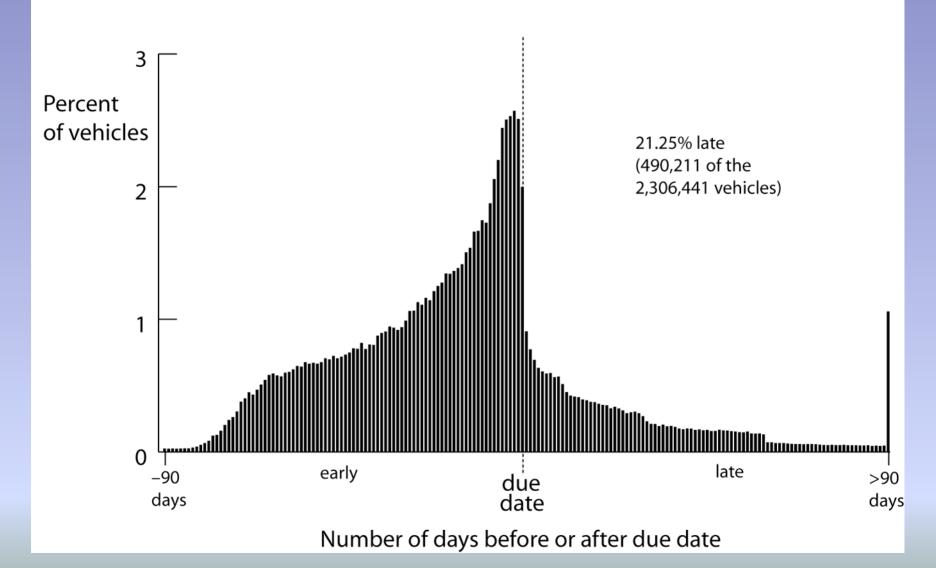
Registration due June 8, 2005

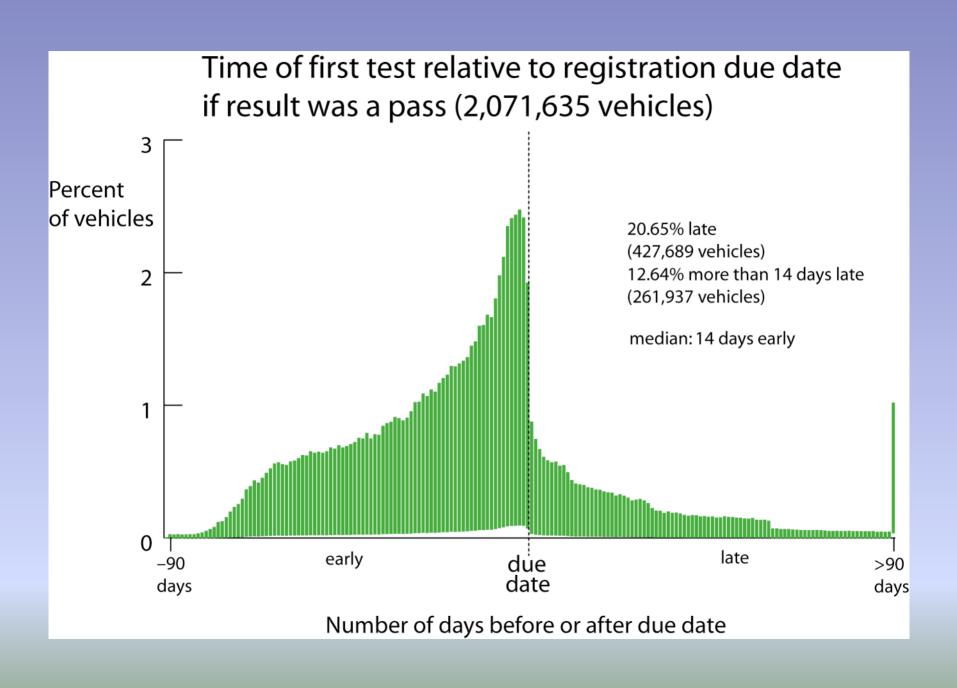
Station Date and time Mileage Type Result

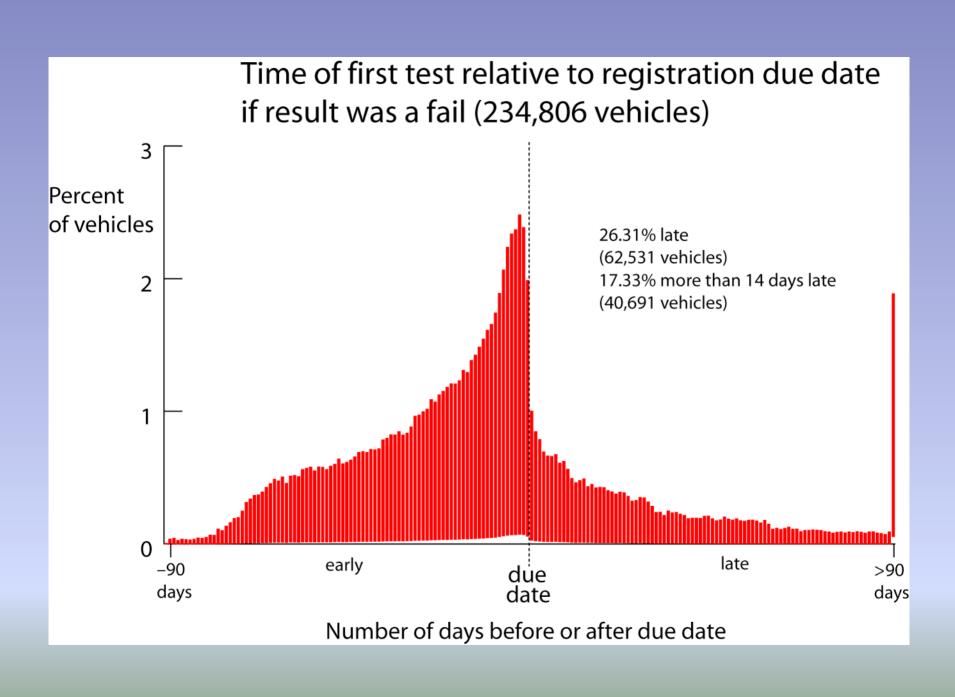
■ TB226429, 9/20/2005,15:30, 201284, P, P

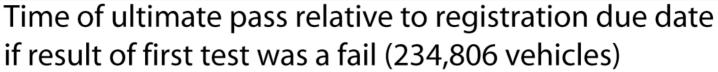
Pass certificate first attempted 104 days late Pass certificate achieved 104 days late

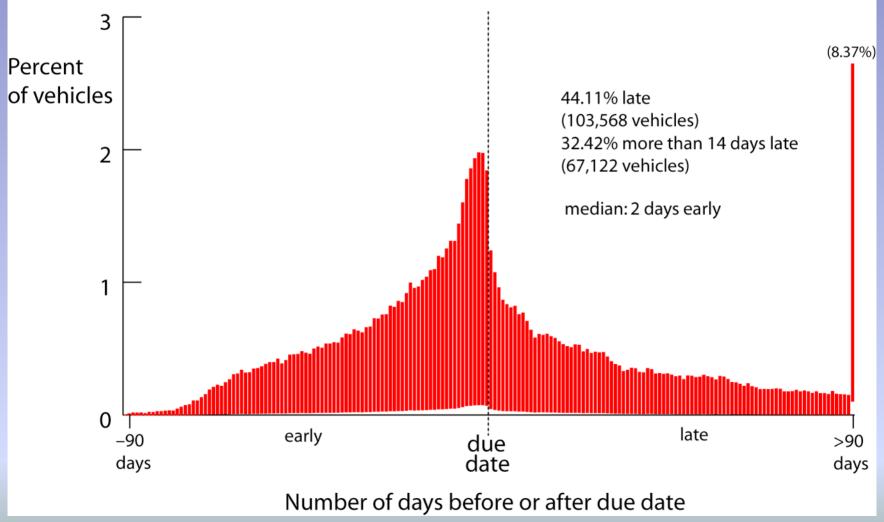
Time of first certification attempt relative to registration due date

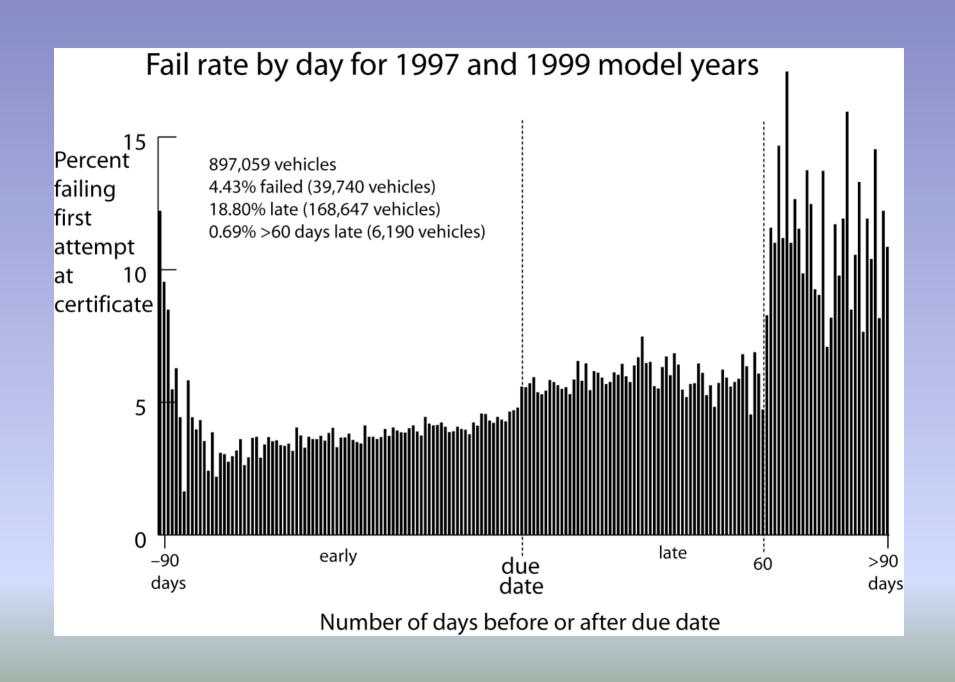


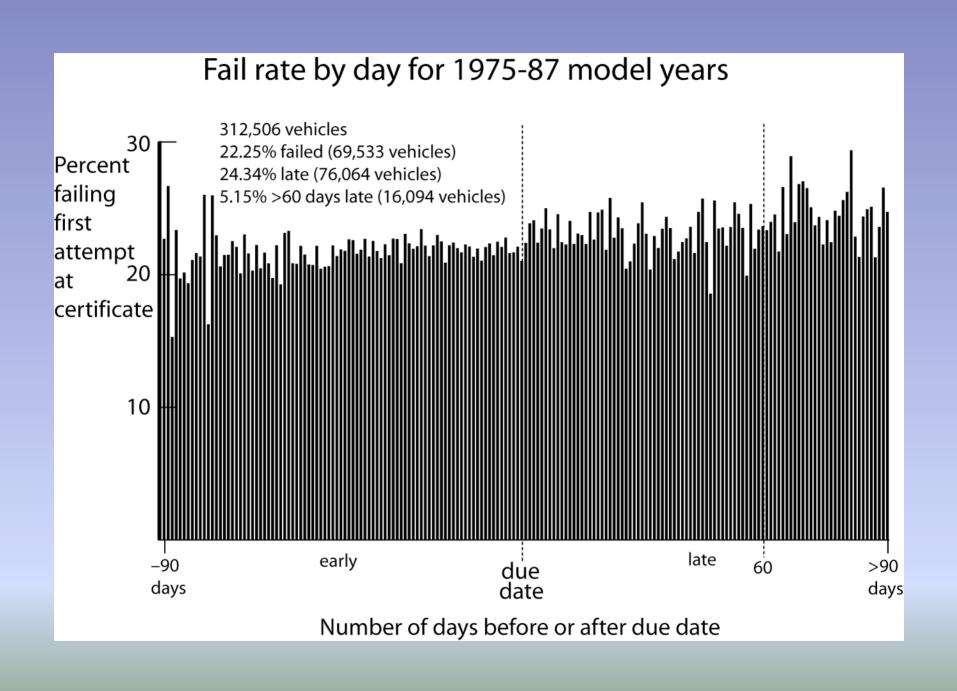


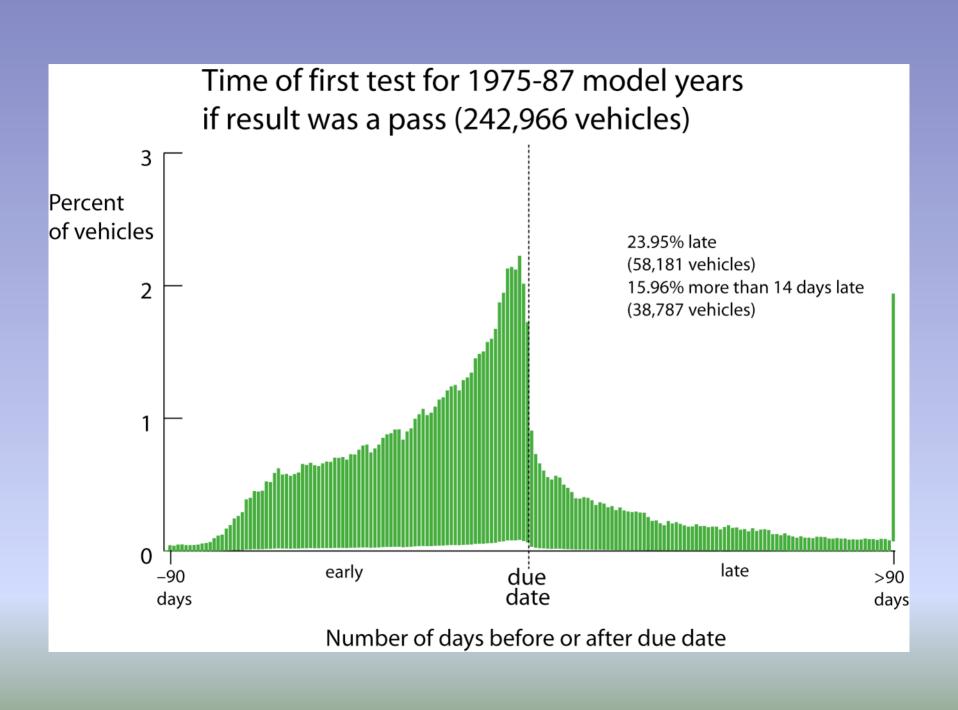


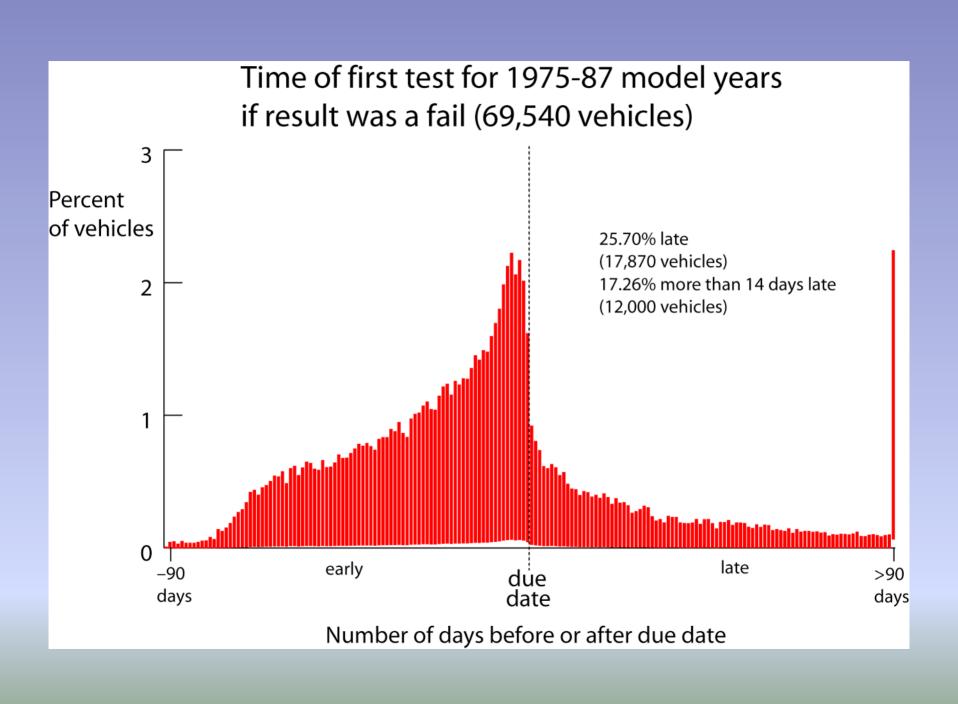


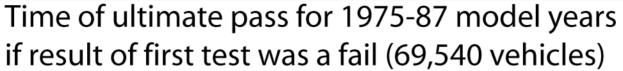


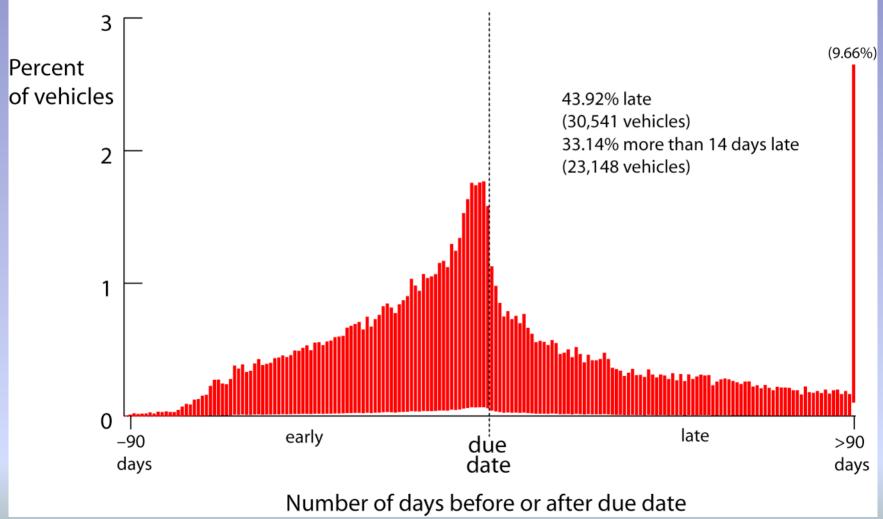












Procrastination by age of vehicle

		% >14	Late fails as %	% of fails
Model year	% late	days late	of fails	repaired late
1977	23.73	15.90	24.36	40.93
1979	23.68	15.68	23.80	41.26
1981	22.67	15.10	22.36	40.90
1983	24.34	16.39	24.69	43.21
1985	24.03	15.99	25.73	44.38
1987	24.95	16.67	26.94	45.07
1989	24.08	15.79	27.12	43.78
1991	22.87	14.70	27.54	44.35
1993	22.24	14.24	27.26	44.50
1995	21.23	13.00	28.01	44.72
1997	19.32	11.23	26.17	44.91
1999	18.35	10.24	24.76	41.63

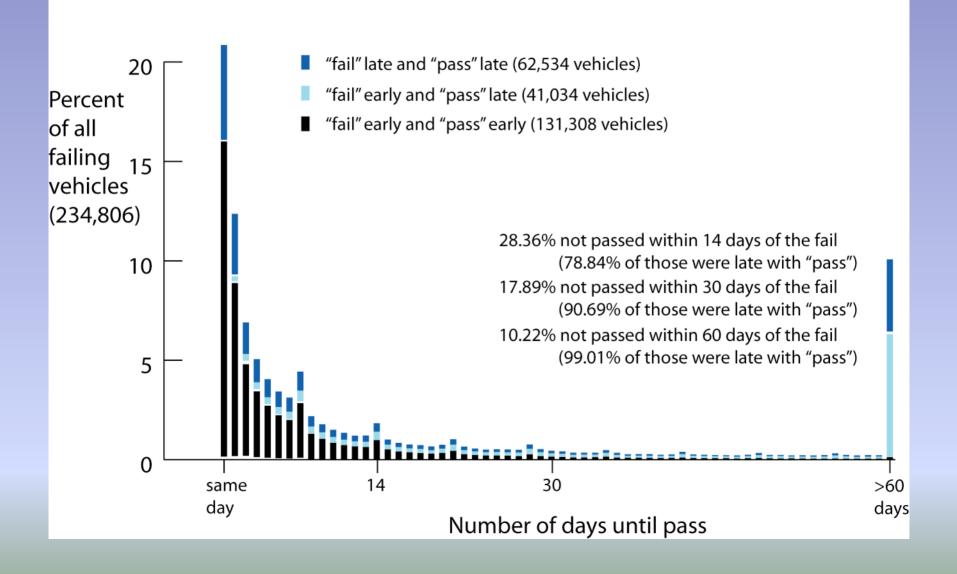
Procrastination by type of vehicle

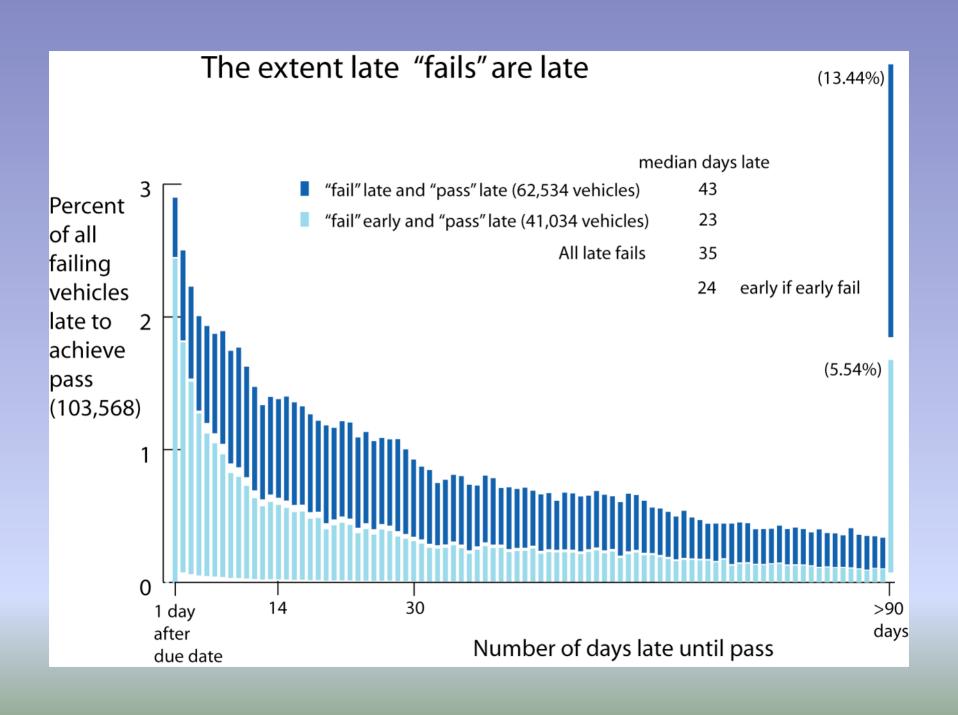
'97 Hondas	20.00	11.92	31.23	49.57
'87 Hondas	28.04	18.97	29.90	49.80
'97 Volvos	19.07	11.45	28.32	57.71
'87 Volvos	26.06	17.71	27.93	48.93
'97 VWs	24.25	14.71	28.21	49.61
'87 VWs	30.87	21.42	29.23	50.27
'97 GM trucks	21.33	12.13	27.38	45.24
'87 GM trucks	25.32	16.27	26.38	42.61

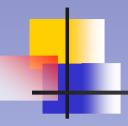
Procrastination by place of test

			Late fails	% of fails
		% >14	as % of	repaired
Test style	% late	days late	fails	late
'97s directed	22.18	14.29	31.28	52.60
'97s volunteer	20.12	11.31	26.04	46.26
'97s test&repair	17.46	9.62	22.34	38.19
'87s directed	25.67	17.48	27.60	46.13
'87s volunteer	22.27	12.96	20.44	35.43
'87s test&repair	19.75	11.15	19.80	32.69

Time elapsed for "fails" to achieve "pass"







Extent late by type of fail

		Number
	# Late	Median Days
Gross polluter (G)	22,840	44
Tampered (T)	5,886	34
Fail (F)	74,842	31



Mileage of late fails

	Median
	Monthly
	Mileage
All those late to achieve pass	574
Gross polluter	422
Tampered	497
'97 – '99 vehicles	936
'75 – '87 vehicles	305
> 30 days late	543
> 60 days late	528



Answers to the three basic questions about procrastination

- Many Californians (some 20%) are late with biennial smog checks.
- Those whose vehicles fail are slightly more likely to be late for their initial test.
- Close to half of failed vehicles are not passed by the re-registration due date, most of these more than 30 days late.



Yet more questions about procrastination over smog checks

- Are the same Californians procrastinating on other biennial smog checks, whether for their same or their other vehicles?
- Which Californians are late with the reregistration fee itself?
- Does a vehicle failing in one biennial cycle encourage or discourage its owner from procrastinating during the next cycle?
- How does the EMFAC emission model account for the pollution resulting from procrastination?